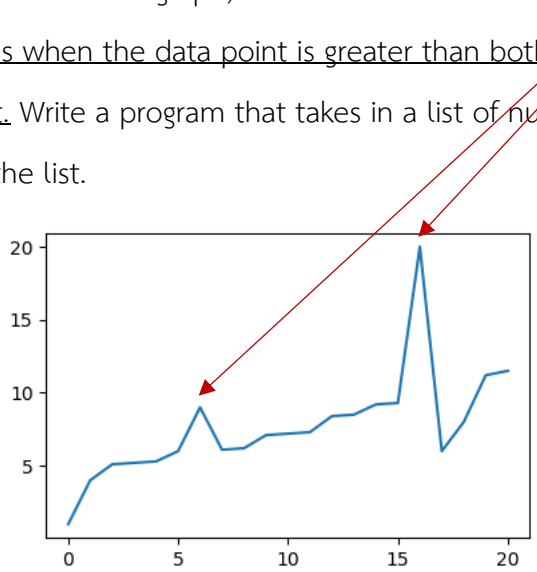
Counting Peaks

If we take data from this list, y = [1, 4, 5.1, 5.2, 5.3, 6, 9, 6.1, 6.2, 7.1, 7.2, 7.3, 8.4, 8.5, 9.2, 9.3, 20, 6, 8, 11.2, 11.5], and plot it into a graph, then there would be two "peaks" as shown in the graph below. A peak is when the data point is greater than both the value to the left and the value to the right. Write a program that takes in a list of numbers and returns how many peaks there are in the list.



Input

A list of real numbers, separated by space(s).

Output

The number of peaks in the list of data.

Example

Input (from keyboard)	Output (on screen)
1 2 3 4 5 6 7 8 9	0
1 1 1 1 1 1 9 1 1 1 1 1	1
1 9 1 9 1 9 1 9 1 9 1	5